



[My NCBI](#) [\[Sign In\]](#) [\[Register\]](#)

[PubMed](#) [Nucleotide](#) [Protein](#) [Genome](#) [Structure](#) [PMC](#) [Taxonomy](#) [OMIM](#) [Books](#)

Search for

[Limits](#) [Preview/Index](#) [History](#) [Clipboard](#) [Details](#)

Display Show

Range: from to Features: ☐ SNP ☒ CDD ☒ HPRD

☐ **1:** NP_002336. Reports lumican precursor...[gi:4505047]

[Blink](#), [Conserved Domains](#), [Links](#)

[Comment](#) [Features](#) [Sequence](#)

LOCUS NP_002336 338 aa linear PRI 05-NOV-2002
 DEFINITION lumican [Homo sapiens].
 ACCESSION NP_002336
 VERSION NP_002336.1 GI:4505047
 DBSOURCE REFSEQ: accession [NM_002345.2](#)
 KEYWORDS .
 SOURCE Homo sapiens (human)
 ORGANISM [Homo sapiens](#)
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (residues 1 to 338)
 AUTHORS Pellegata,N.S., Dieguez-Lucena,J.L., Joensuu,T., Lau,S.,
 Montgomery,K.T., Krahe,R., Kivela,T., Kucherlapati,R., Forsius,H.
 and de la Chapelle,A.
 TITLE Mutations in KERA, encoding keratocan, cause cornea plana
 JOURNAL Nat. Genet. 25 (1), 91-95 (2000)
 PUBMED [10802664](#)
 REFERENCE 2 (residues 1 to 338)
 AUTHORS Grover,J., Chen,X.N., Korenberg,J.R. and Roughley,P.J.
 TITLE The human lumican gene. Organization, chromosomal location, and
 expression in articular cartilage
 JOURNAL J. Biol. Chem. 270 (37), 21942-21949 (1995)
 PUBMED [7665616](#)
 REFERENCE 3 (residues 1 to 338)
 AUTHORS Chakravarti,S., Stallings,R.L., SundarRaj,N., Cornuet,P.K. and
 Hassell,J.R.
 TITLE Primary structure of human lumican (keratan sulfate proteoglycan)
 and localization of the gene (LUM) to chromosome 12q21.3-q22
 JOURNAL Genomics 27 (3), 481-488 (1995)
 PUBMED [7558030](#)
 REFERENCE 4 (residues 1 to 338)
 AUTHORS Strausberg,R.
 TITLE Homo sapiens lumican (LUM), mRNA
 JOURNAL Unpublished (2001)
 COMMENT PROVISIONAL REFSEQ: This record has not yet been subject to final
 NCBI review. The reference sequence was derived from [BC007038.1](#).
 FEATURES
 source
 Location/Qualifiers
 1..338
 /organism="Homo sapiens"
 /db_xref="taxon:[9606](#)"
 /chromosome="12"
 /map="12q21.3-q22"
 /clone="MGC:12410 IMAGE:3950745"
 /tissue_type="Prostate"

Protein /clone_lib="NIH_MGC_83"
/lab_host="DH10B"
/note="Vector: pDNR-LIB"
1..338
/product="lumican"
/calculated_mol_wt=38298
Region 37..71
/region_name="Leucine rich repeat N-terminal domain"
/note="LRRNT; Leucine rich repeat N-terminal domain"
/db_xref="CDD:smart00013"
Region 37..66
/region_name="Leucine rich repeat N-terminal domain.
Leucine Rich Repeats pfam00560 are short sequence motifs
present in a number of proteins with diverse functions and
cellular locations. Leucine Rich Repeats are often flanked
by cysteine rich domains. This domain is often found at
the N-terminus of tandem leucine rich repeats"
/note="LRRNT; Leucine rich repeat N-terminal domain.
Leucine Rich Repeats pfam00560 are short sequence motifs
present in a number of proteins with diverse functions and
cellular locations. Leucine Rich Repeats are often flanked
by cysteine rich domains. This domain is often found at
the N-terminus of tandem leucine rich repeats"
/db_xref="CDD:pfam01462"
CDS 1..338
/gene="LUM"
/coded_by="NM_002345.2:142..1158"
/db_xref="GeneID:4060"
/db_xref="MIM:600616"

ORIGIN

```
1 mslsaftlfl aliggtsgqy ydydfplsiy gqsspncape cncpesypsa mycdelklks
61 vpmvppgi ky lylnnqidh idekafenvt dlqwlildhn llenskikgr vfsklkqlkk
121 lhinhnnte svqplpksle dlqlthnkit klgsfeglvn ltfihlqhn lkedavsaaf
181 kglksleyld lsfngiarlp sglpvslltl yldnnkisni pdeyfkrfna lqylrlshne
241 ladsgipgns fnvsslvel dlsynklknip tvnenlenyy levnqlekfd iksfckilgp
301 lsykikhrlr ldgnrisets lppdmyeclr vanevtln
```

//

[Disclaimer](#) | [Write to the Help Desk](#)
[NCBI](#) | [NLM](#) | [NIH](#)

Jun 19 2007 13:56:00